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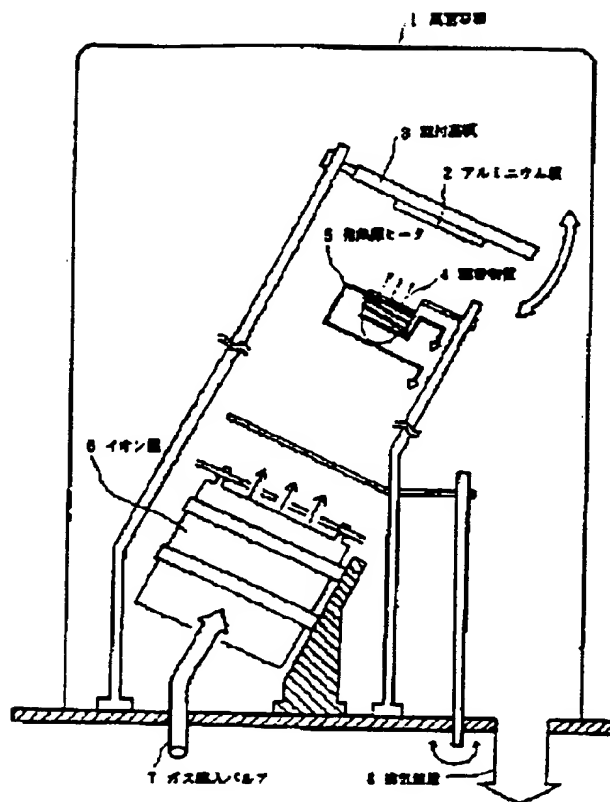
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INVENTOR : YOSHINO KATSUMI;

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TITLE : MANUFACTURE OF SOLID  
ELECTROLYTIC CAPACITOR



**ABSTRACT :** **PURPOSE:** To provide a method of manufacturing a solid electrolytic capacitor, which forms a solid electrolyte consisting of an organic material uniformly and in a high density in small holes in a valve action metal plate formed by an etching process, increases the electrostatic capacitance of the capacitor and is capable of improving the frequency characteristics and temperature characteristics of the capacitor.

**CONSTITUTION:** An aluminium plate 2 mounted on a mounting board 3 arranged in a vacuum container 1 has microscopic small holes formed therein through an etching process and an oxide film formed on its surface including the small holes through a chemical formation process after the formation of the small holes, and an ion source 6 are counterposed and a deposited substance 4 consisting of a TCNQ complex is put directly under the plate 2. The arrangement position of the source 6 is provided in such a way that the center of the substrate 3 and the center of the source 6 coincide with each other on the same directris passing through the centers of the board 3 and the substance 4, an ion beam which is irradiated with from the source 6 to evaporate thereby forming a deposited film, which is used as a solid electrolyte, on the surface of the oxide film on the surface of the plate 2.

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